

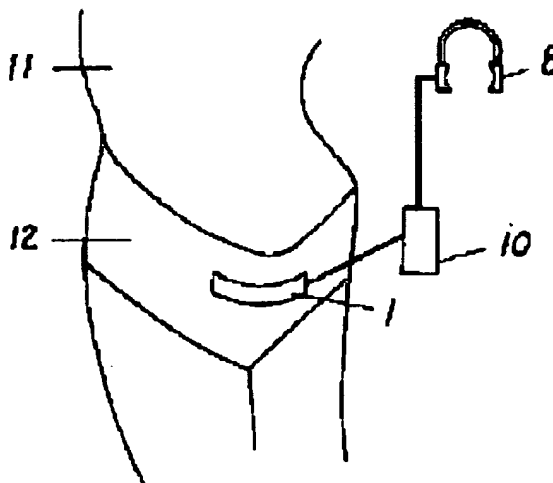
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DATA PROCESSING APPARATUS OF LIVING BODY**Publication number:** JP6296593**Publication date:** 1994-10-25**Inventor:** SHIBA BUNICHI**Applicant:** MATSUSHITA ELECTRIC IND CO LTD**Classification:****- international:** **A61B5/025; A61B7/02; A61B5/024; A61B7/00;** (IPC1-7): A61B5/025**- European:****Application number:** JP19930088314 19930415**Priority number(s):** JP19930088314 19930415[Report a data error here](#)**Abstract of JP6296593**

PURPOSE: To detect for a pregnant woman the heartbeat or the like of her fetus regardless of time and place by attaching the apparatus to her own body easily by herself.

CONSTITUTION: The heartbeat of her fetus or the migration by fetal movement of amniotic fluid in her uterus and the like appear as the pressure change on the surface of her abdominal region with her living body activity.

The pressure change is detected with the device 1 detecting pressure change that is fixed to the surface of a maternity belt 12 near to her abdominal region. The detected signal passes a wave filtering device 2 in which the most appropriate frequency for extracting the fetal heartbeat is set previously, and after that, the amplitude of the signal of the pressure change is amplified by the first amplifying device and is inputted to the signal processing device. The signal processing device processes the signal such as autocorrelation process or the like so that the fetal heartbeat is extracted from the pressure sensitive device 1, and after that, outputs this information on the displaying device 8. Consequently, the pregnant woman knows her fetal heartbeat by watching the display.



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